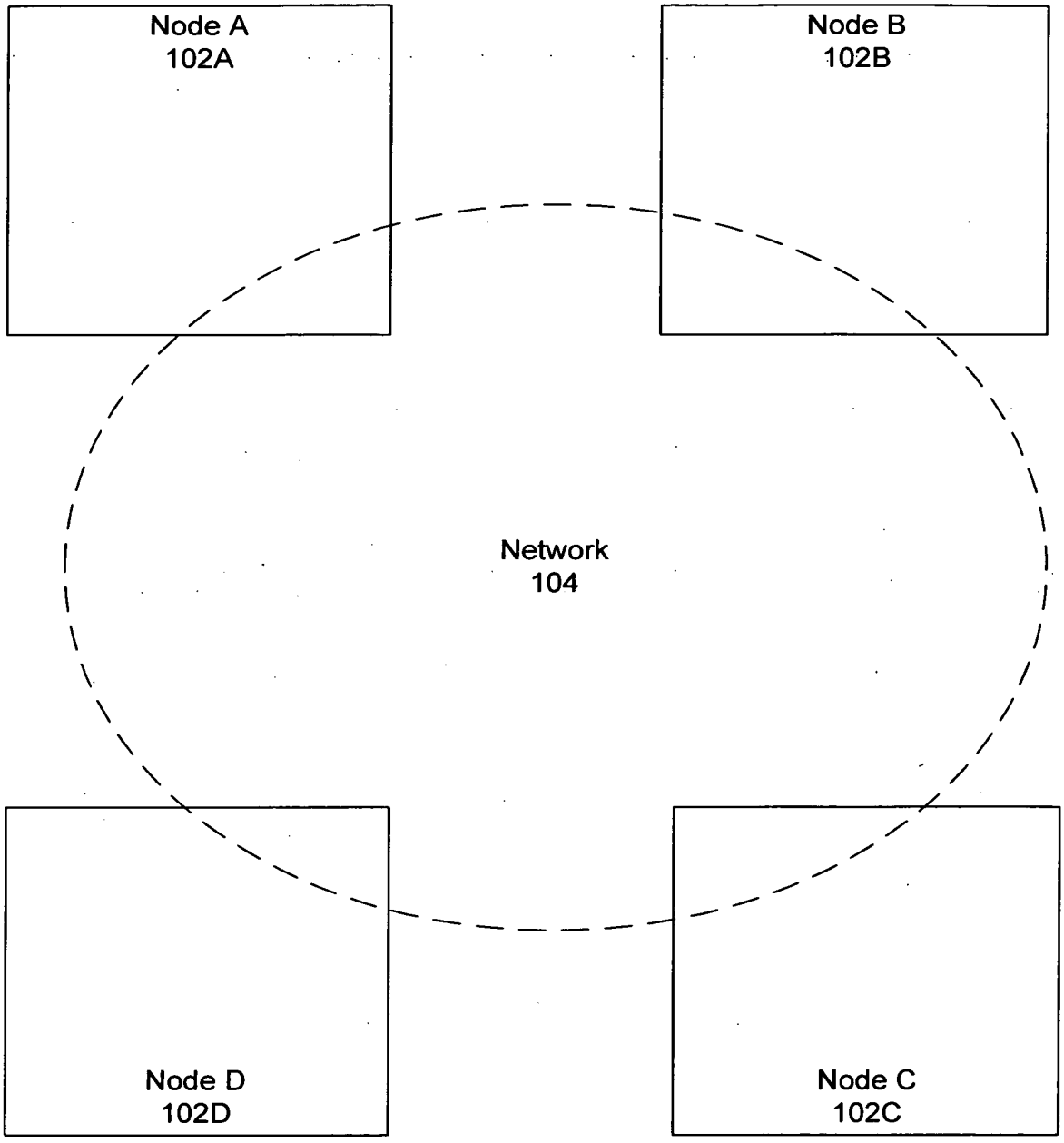


FIG. 1
(Background Art)

100

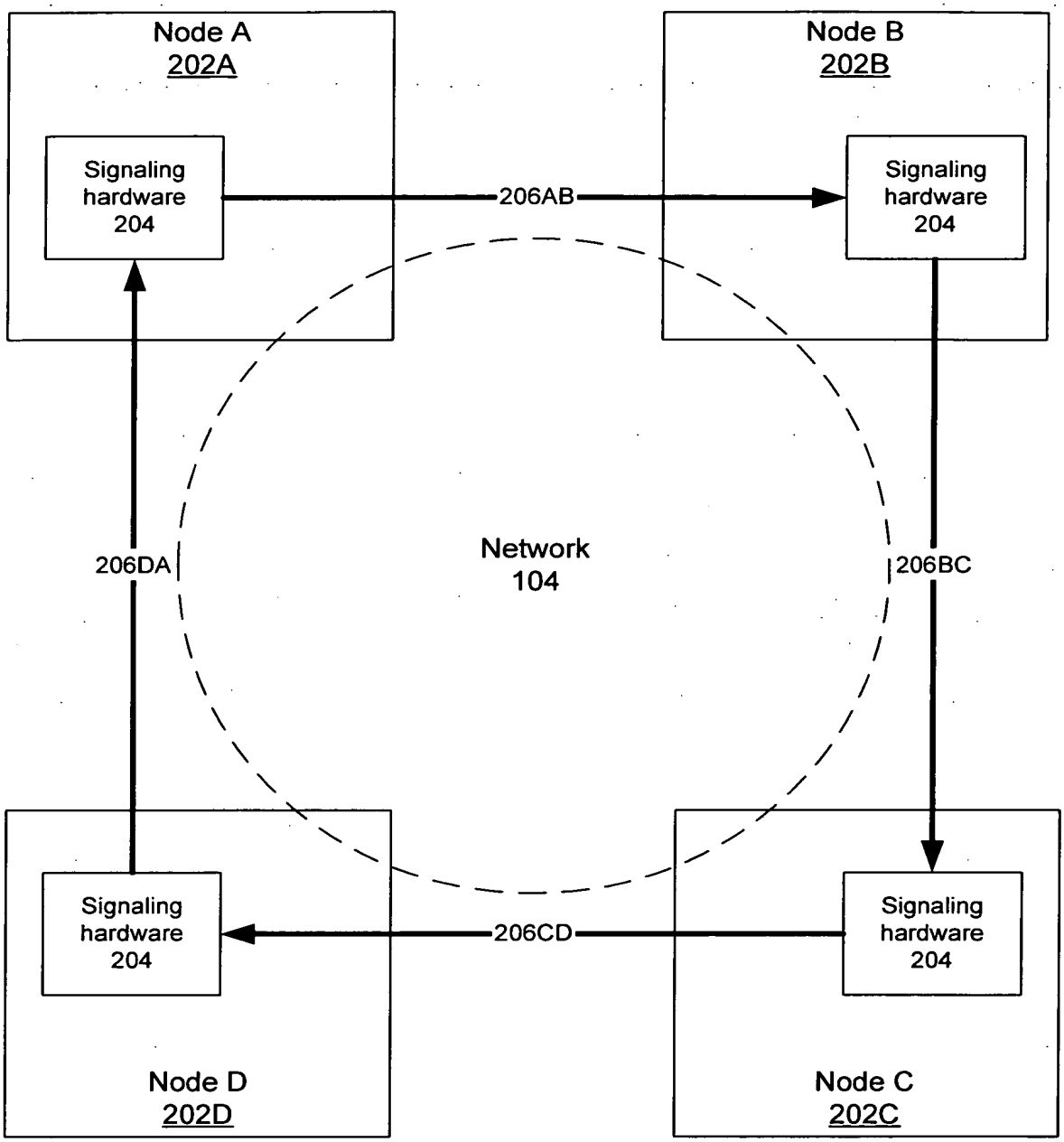

Node A
202A
Signaling hardware 204
206AB
Node B
202B
Signaling hardware 204
206DA
Network
104
206BC
Signaling hardware 204
206CD
Signaling hardware 204
Node D
202D
Node C
202C

FIG. 2

200

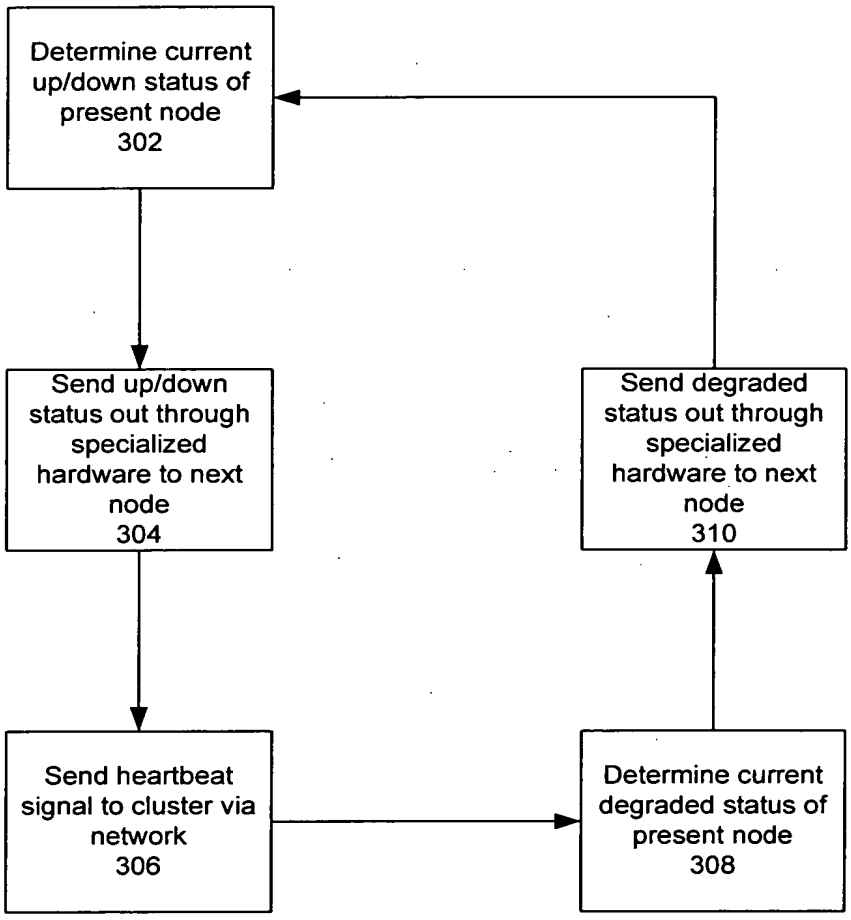
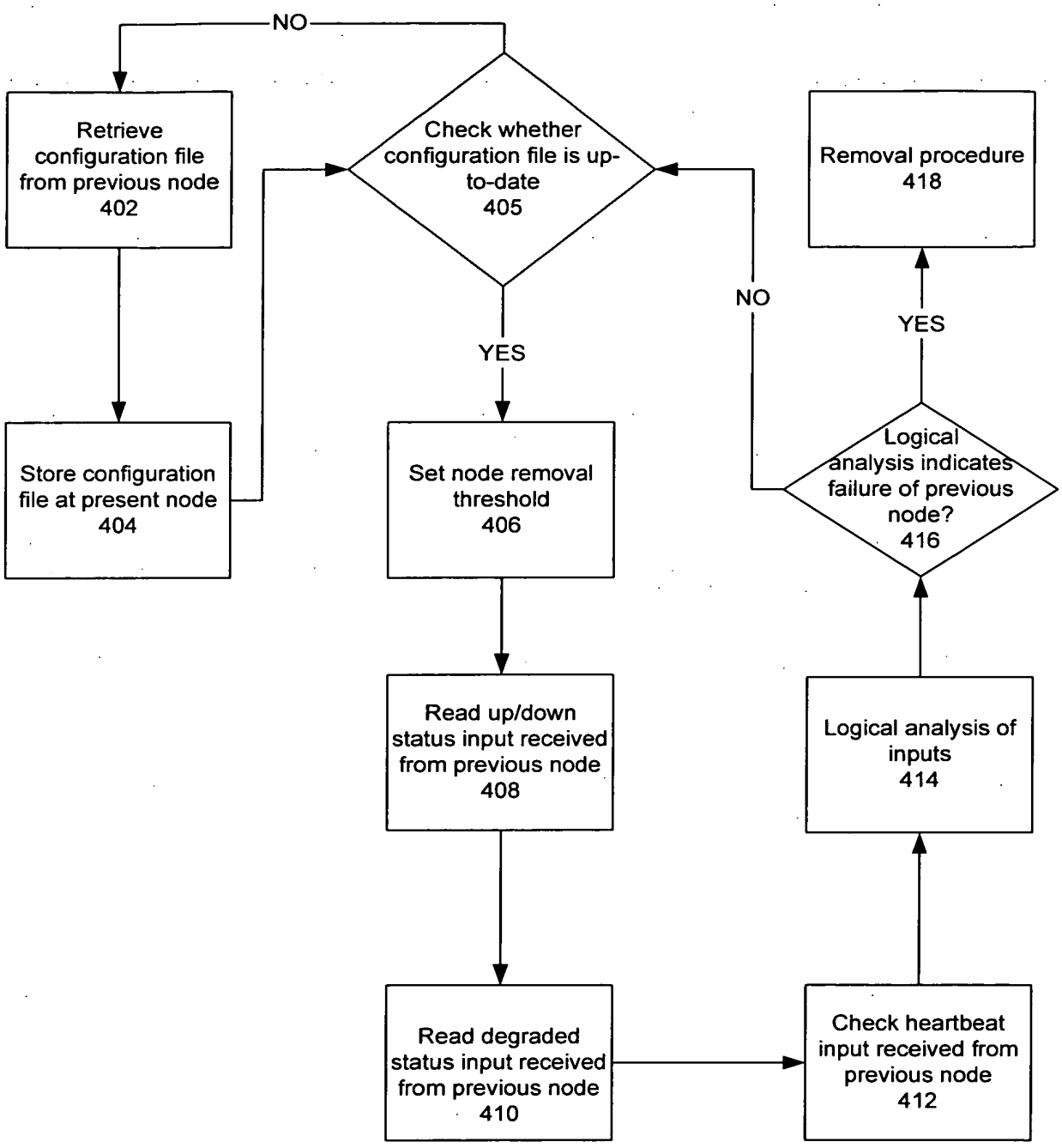


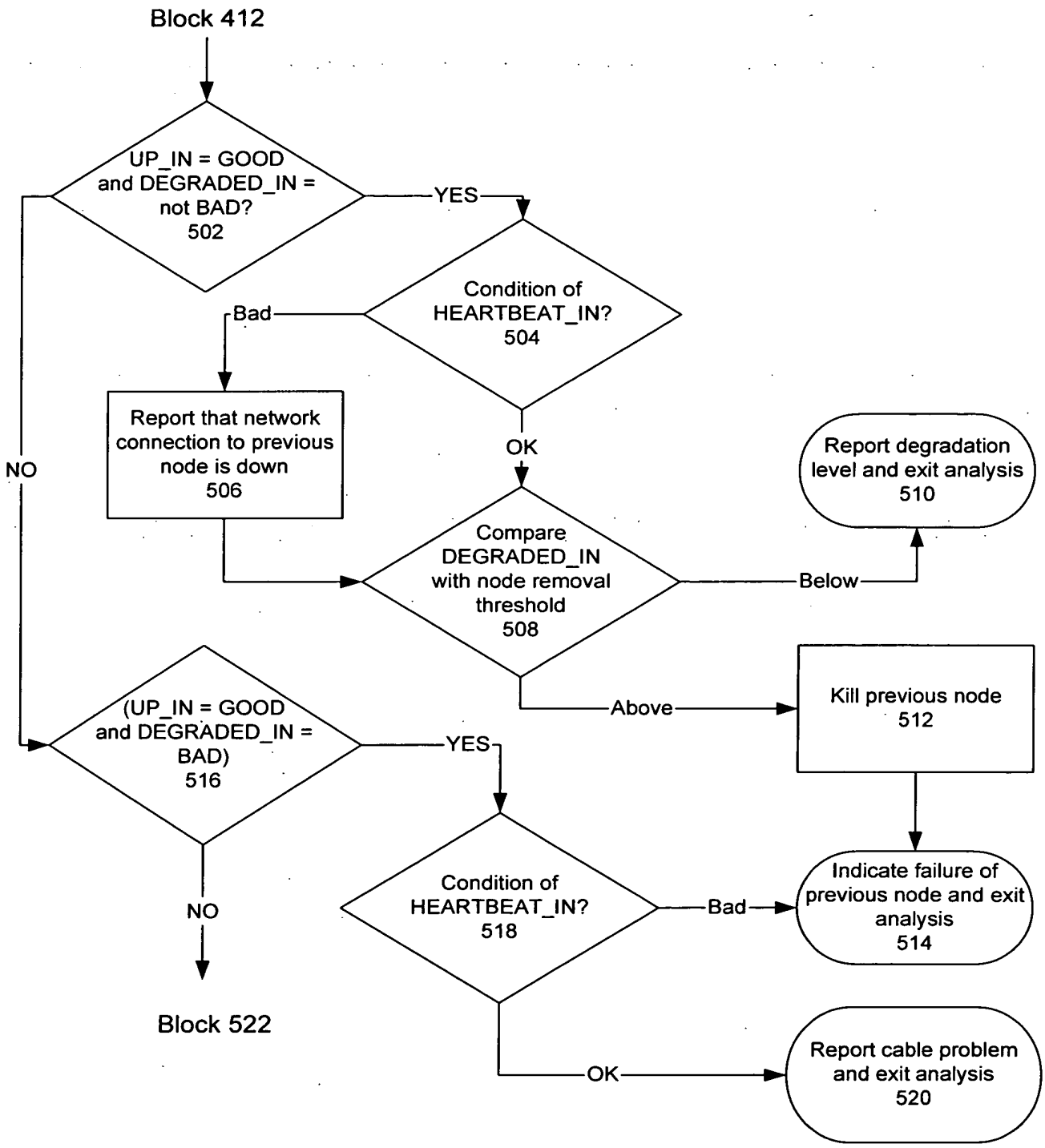
FIG. 3

Node Status Generation Process
300



Cluster-Wide Management Process 400

FIG. 4



Logical Analysis

414

FIG. 5A

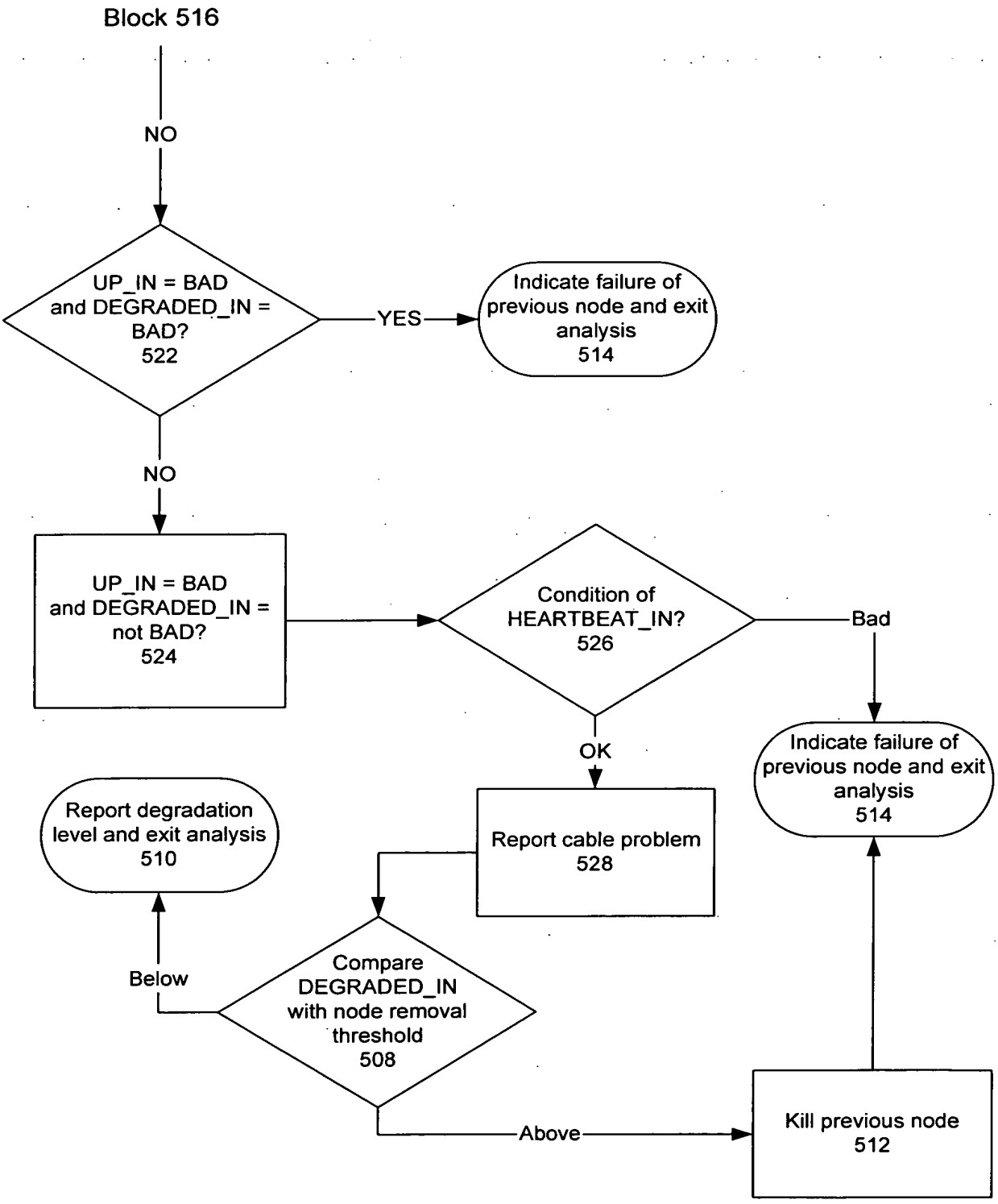

Block 516
NO
UP_IN = BAD and DEGRADED_IN = BAD? 522
YES
Indicate failure of previous node and exit analysis 514
NO
UP_IN = BAD and DEGRADED_IN = not BAD? 524
Condition of HEARTBEAT_IN? 526
Bad
OK
Indicate failure of previous node and exit analysis 514
Report degradation level and exit analysis 510
Report cable problem 528
Below
Compare DEGRADED_IN with node removal threshold 508
Above
Kill previous node 512
Logical Analysis 414

FIG. 5B

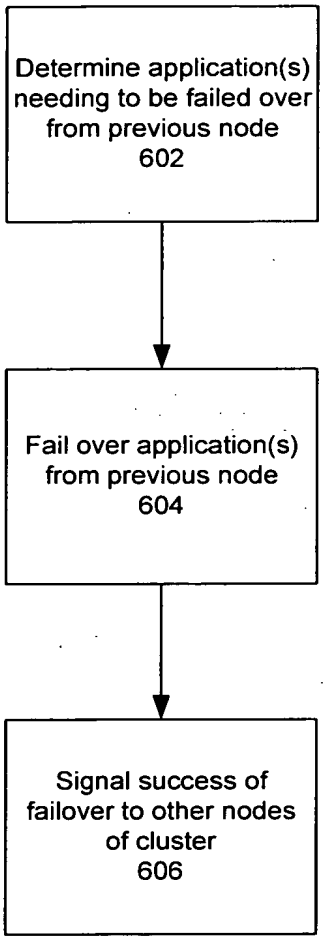


FIG. 6

Removal Procedure

418